**Reading in the midi files:**

**Note encoding:**

Each note is encoded with an array of integers which denote the fret positions on the guitar. This ranges from 0 on the open high E string, to 149 on the 24th fret of the low E string. In this way the string value and the fret value can be passed to the TAB program by taking the integer division and modulus of the position value respectively.

**Testing:**

The tab constructor was tested by running it 1 million times and for each iteration checking there are no duplicate fret positions in a single chord.